

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

This page summarizes all of the open tasks under the Cambridge Systematics contract with the research bureau.

Task	Project Budget	Budget Expended	% of Budget Expended	% of Work Complete
8 – ADA Data Inventory Collection and Analysis	\$89,796	\$75,960	85%	85%
13 – Tower Street Lighting	\$45,062.46	\$45,062.46	100%	100%
17 – Asset Management Decision Support Tool Testing and Requirements Documentation	\$110,989.28	\$27,721.98	25%	25%

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	ADA Data Inventory Collection and Analysis Program		
RFP NUMBER: 7092283	NJDOT RESEARCH PROJECT MANAGER: Stefanie Potapa		
TASK ORDER NUMBER: 8	PRINCIPAL INVESTIGATOR: Agnes Muszynska		
Project Starting Date: 7/14/2009 Project Ending Date: 5/08/2011	Period Starting Date: 10/1/2010 Period Ending Date: 12/31/2010		

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Development of Framework for internal and external communication	91%	\$81,714	17%	\$10,218	88%	\$71,752
2. Stakeholder outreach	9%	\$8,082	49%	\$3,156	52%	\$4,208
TOTAL	100%	\$89,796		\$13,374		\$75,960

Project Objectives:

The original objectives of this project were to design an inventory data collection and analysis program and to produce a final report and database application. Due to data availability and readiness, the Office of Civil Rights requested a change to the scope of work to better meet the needs of the Office. Based on this request, the *revised* objectives of this project are to:

- Develop a mission and vision statement for the ADA program
- Develop of a public informational brochure
- Develop website content and strategies for leveraging the website and SharePoint site to convey information about the ADA program
- Outreach to regional stakeholders, including the MPOs, to share best practices in a "peer review" fashion

Project Abstract:

For the New Jersey Department of Transportation (DOT), Cambridge Systematics will perform a set of communications and outreach activities under two broad tasks. Task 1 will develop the framework for internal and external communication for the Title II and Section 504 Program, including: the development of a mission and vision statement for the program; the development of website content to educate the public about the program, its required elements, NJDOT's approach and roles, helpful resource links, as well as contact

information; development of content for inclusion in the internal SharePoint site; and development of a program brochure to highlight the program to the public-at-large. Task 2 will focus on the outreach component, including the development of an informal interview guide for identified New Jersey MPO ADA leads and facilitated meetings to glean and share information on ADA practices.

1. Progress this quarter by task:

- Finalized Module 2 Training materials
- Finalized Complaint/Grievance Form

2. Proposed activities for next quarter by task

- Prepare interview guides for peer outreach
- Schedule interviews/outreach sessions as part of Task 2; anticipated in January/February 2010 timeframe
- Include Mission and Vision Statements on existing brochures (English and Spanish versions)
- Include additional resources on SharePoint site
- Develop and submit Final Report to summarize Task 1 and 2

3. List of deliverables provided in this quarter by task (product date)

- Final training slides (Planning Group, CPM Group, Engineering/Design Group, Maintenance Group, and Oversight Group) – October 17
- Complaint/ Grievance Form – October 18

Total Project Budget	\$89,796
Contract Amount:	\$89,796
Total Project Expenditure to date	\$75,960
% of Total Project Budget Expended	85%

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Tower Street Lighting		
RFP NUMBER: 7192678		NJDOT RESEARCH PROJECT MANAGER: Stefanie Potapa	
TASK ORDER NUMBER: 13		PRINCIPAL INVESTIGATOR: Josh DeFlorio	
Project Starting Date: 1/26/2010 Project Ending Date: 1/25/2011		Period Starting Date: 10/1/2010 Period Ending Date: 12/31/2010	

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Kick Off Meeting	9%	\$4,056	0%	\$0	100%	\$4,056
2. Literature Review	13%	\$5,858	0%	\$0	100%	\$5,858
3. Choose Alternative Application Sites	6%	\$2,704	0%	\$0	100%	\$2,704
4. Choose lighting Systems	7%	\$3,154	0%	\$0	100%	\$3,154
5. Analyze Base Case Lighting Systems	11%	\$4,957	0%	\$0	100%	\$4,957
6. Create Test Case Lighting Systems	14%	\$6,309	100%	\$0	100%	\$6,309
7. Conduct Performance Comparisons for all Cost and Safety Factors	22%	\$9,914	100%	\$0	100%	\$9,914
8. Final Report	18%	\$8,111	18%	\$1,503	100%	\$8,111
TOTAL	100%	\$45,062		\$1,503	100%	\$45,062

Project Objectives:

The objectives of this project are to:

Provide technical staff with a framework for understanding the potential benefits and constraints associated with utilizing high mast lighting in place of conventional lighting systems in appropriate contexts.

Project Abstract:

This study will explore the potential benefits of replacing conventional highway lighting systems with high mast systems. Factors subject to comparative evaluation include 1) the ease and cost of maintenance, including expected man hours 2) the safety of maintenance personnel, 3) cost/benefit analysis, including capital costs, maintenance costs, energy costs,

and anticipated system life, 4) impacts on the safety of the motoring public, and 5) impacts on the environment and aesthetics.

1. Progress this quarter by task:

Task 1:

- n/a

Task 2:

- n/a

Task 3:

- n/a

Task 4:

- n/a

Task 5:

- n/a

Task 6:

- n/a

Task 7:

- n/a

Task 8:

- Documented revised design
- Submit Final Report

2. Proposed activities for next quarter by task

Task 1:

- Complete.

Task 2:

- Complete.

Task 3:

- Complete.

Task 4:

- Complete.

Task 5:

- Complete.

Task 6:

- Complete.

Task 7:

- Complete.

Task 8:

- Complete

3. List of deliverables provided in this quarter by task (product date)

- Final report (12/15)
- Tech Brief (12/15)

4. Progress on Implementation and Training Activities:

- No work on implementation or training in this period.

5. Problems/Proposed Solutions:

- No problems identified for this period

Total Project Budget	\$45,062.46
Contract Amount:	\$45,062.46
Total Project Expenditure to date	\$45,062.46
% of Total Project Budget Expended	100%

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Asset Management Decision Support Tool Testing and Requirements Documentation		
RFP NUMBER: 7263555	NJDOT RESEARCH PROJECT MANAGER: Camille Chrichton-Summers		
TASK ORDER NUMBER: 17	PRINCIPAL INVESTIGATOR: Hugh Louch		
Project Starting Date: 06/21/2010 Project Ending Date: 02/20/2011	Period Starting Date: 10/01/2010 Period Ending Date: 12/31/2010		

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Model Testing	60%	\$66,157	28%	\$4,592	28%	\$22,260
2. Software Design	35%	\$39,061	0%	\$5,461	0%	\$5,461
3. Final Report	5%	\$5,771	0%	\$0	0%	\$0
TOTAL	100%	\$110,989		\$10,054		\$27,772

Project Objectives:

The objectives of this project are to validate the asset management decision support model developed for NJDOT by Cambridge Systematics and to develop software requirements to implement the model within NJDOT's data warehouse.

Project Abstract:

This project provides additional testing and development of an asset management decision support tool that was developed for NJDOT Capital Investment Strategies. The task includes 1) testing the model with data from NJDOT management systems, as they are provided to the data warehouse being developed by NJDOT, and 2) further specifying a web-based software application that would interact with the NJDOT data warehouse and provide easy access to the utility calculations and optimization routines developed as part of the previous effort.

1. Progress this Quarter by Task

Task 1:

- Continued developing testing methodology
- Continued meetings with NJDOT management system staff to review data issues

Task 2:

- Met with management system owners to discuss software tool needs

Task 3:

- No work conducted to date

2. Proposed activities for next quarter by task

Task 1:

- Finalize approach to tool validation
- Conduct tool validation

Task 2:

- Complete meetings with CIS and other relevant staff to discuss software requirements

Task 3:

- Document findings in final report

3. List of deliverables provided in this quarter by task (product date):

- No deliverables provided in this quarter

4. Progress on Implementation and Training Activities:

- No work on implementation or training in this period

5. Problems/Proposed Solutions:

- A required work stoppage of one month may create the need for an extension for this project.

Total Project Budget	\$110,989.28
Contract Amount:	\$110,989.28
Total Project Expenditure to date	\$27,721.98
% of Total Project Budget Expended	25%